

(11) Publication number:

59078919 A

PATENT ABSTRACTS OF JAPAN

Generated Document

(21) Application number: 57186866

(51) Intl. Cl.: C01B 33/02

(22) Application date: 26.10.82

publication: (43) Date of application (30) Priority:

(84) Designated contracting

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AMORPHOUS SILICON (54) FORMATION OF

(57) Abstract:

of ammonia (deriv.) to a gaseous method by adding a specified amount chemical vapor deposition (CVD) characteristics of the film in the PURPOSE: To increase the growing starting material manufacture of an a- Si film by a film without deteriorating the speed of an amorphous silicon (a-Si)

amount of silicon in the gaseous hydrazine (deriv.), and Si is the the ammonia (deriv.) and/or [where N is the amount of nitrogen in relation represented by formula IV the silane by an amount satisfying and/or hydrazine (deriv.) is added to At this time, said ammonia (deriv.) deposit an a-Si film on the substrate. decomposed at about 250W600°C to nitrogen, and the silane is thermally together with an inert gas such as introduced into the furnace optionally represented by formula III (where n is substrate is placed in a decomposition each of R1WR7 is H, alkyl or aryl. A formula II is used. In the formulae hydrazine (deriv.) represented by represented by formula I and/or CONSTITUTION: Ammonia (deriv.) furnace, silane of higher order such as disilane or trisilane is

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Sin H 2n + 2

0.01≦N/8; (グラムーアトム比)<0.2

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A 6168/069